

4 a blow molding station for stretch blow molding the
preforms into bottles;

6 a transfer station for transferring the preforms from the
preform molding station to the blow molding station; and

8 a machine bed on which the preform molding, blow
molding and transfer stations are provided,

10 wherein the blow molding station comprises:

a receiving section for receiving at least one preform from
12 the preform molding station through the transfer station;

D 14 a circulatory carrier for intermittently circulatorily
carrying the preforms along a carrying path, the preforms being received
from the receiving section;

16 a heating section for heating the preforms carried along
the carrying path;

18 a blow molding section for blow molding the at least one
preform carried along the carrying path into the at least one bottle; and

20 a bottle ejecting section for ejecting the at least one bottle
outside the apparatus,

22 and wherein the machine bed is substantially rectangular,
and wherein the preform molding, transfer and blow molding stations are
24 substantially linearly aligned on the machine bed.

36. (New) The injection stretch blow molding apparatus of claim 35

2 wherein the perform molding station comprises an injection molding

section and a perform ejecting section,

and wherein the injection molding section, the perform ejecting section, the transfer station and the blow molding station are substantially aligned on the machine bed.

37. (New) The injection stretch blow molding apparatus of claim 36 wherein the perform molding station comprises:

an injecting apparatus;

an injection molding section facing the injecting apparatus; and

a perform ejecting section facing the injection molding section.

38. (New) The injection stretch blow molding apparatus of claim 35 wherein the preform molding station comprises a rotary disc.

39. (New) The injection stretch blow molding apparatus of claim 38 wherein the rotary disc comprises a first position and a second position.

40. (New) The injection stretch blow molding apparatus of claim 39 wherein the first and second positions lie approximately 180° with respect to the disc in relation to one another.

41. (New) The injection stretch blow molding apparatus of claim 39 wherein the molded preforms are moved on the rotary disc from the first position after an injection cycle to the second position to prepare for a subsequent injection cycle.

42. (New) The injection stretch blow molding station of claim 39 wherein preforms in the second position are transferred to the at least one heating section and are heated prior to being transferred to the blow

4 molding station.

43. (New) The injection stretch blow molding station of claim 42
2 wherein the preforms are rotated while disposed in the heating section.

44. (New) An injection stretch blow molding apparatus provided on a
2 machine bed comprising:

a preform molding station for injection molding at least one
4 preform;

a blow molding station for stretch blow molding the
6 preforms into bottles;

D a transfer station for transferring the preforms from the
8 preform molding station to the blow molding station; and

a linearly-aligned concatenated machine bed on which the
10 preform molding, blow molding and transfer stations are provided.

wherein the blow molding station comprises:

12 a receiving section for receiving at least one preform from
the preform molding station through the transfer station;

14 a circulatory carrier for intermittently circulatorily
carrying the preforms along a carrying path, the preforms being received
16 from the receiving section;

a heating section for heating the preforms carried along
18 the carrying path;

a blow molding section for blow molding the at least one
20 preform carried along the carrying path into the at least one bottle; and

a bottle transfer section for transferring the at least one

22

bottle from the blow molding section,

and wherein the machine bed is substantially rectangular,

D1

24

and wherein the preform molding, transfer, and blow molding stations

are substantially linearly aligned on the machine bed.